

Abstract:

**METHOD FOR PLANNING AN INSPECTION PATH AND FOR DETERMINING  
AREAS TO BE INSPECTED**

The invention relates to a method for planning an inspection path (2) for at least one  
5 optical picture-taking device (4), particularly a camera, for inspecting a three-  
dimensional object (3). The picture-taking device (4) and the object (3) are movable  
relative to each other by means of a displacement device (5, 6). To ensure that the  
method for planning inspection paths and for determining areas to be inspected is easy  
to use and reliably covers all areas to be inspected, it is provided that, based on the  
10 design data (8), particularly CAD data and/or data determined by a sensor, relating to  
the object (3) and/or an area (12) to be inspected on the object, and based on the  
optical imaging characteristics of the picture-taking device (4), stored in electronic form,  
and using an arithmetic logic unit (10), the inspection path (2) for the optical picture-  
taking device (4) is automatically determined by specifying a specific geometric  
15 relationship between the picture-taking device (4) and the surface to be inspected.

(Figure 1)